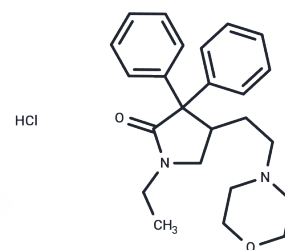


Doxapram hydrochloride hydrate

Chemical Properties

CAS No. :	7081-53-0
Formula:	C ₂₄ H ₃₃ ClN ₂ O ₃ (C ₂₄ H ₃₀ N ₂ O ₂ ·ClH·H ₂ O)
Molecular Weight:	432.99
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Doxapram hydrochloride hydrate (Doxapram HCl) effectively inhibits the function of TASK-1, TASK-3, and TASK-1/TASK-3 heterodimeric channels, displaying EC ₅₀ values of 410 nM, 37 μM, and 9 μM, respectively.
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	DMSO: 81 mg/mL (187.07 mM),Sonication is recommended. Ethanol: 2 mg/mL (4.62 mM),Sonication is recommended. H ₂ O: 23 mg/mL (53.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3095 mL	11.5476 mL	23.0952 mL
5 mM	0.4619 mL	2.3095 mL	4.619 mL
10 mM	0.231 mL	1.1548 mL	2.3095 mL
50 mM	0.0462 mL	0.231 mL	0.4619 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Cotten JF, et al. Anesth Analg, 2006, 102(3), 779-785.
- Robson RH, et al. Br J Clin Pharmacol, 1979, 7(1), 81-87.
- Okuyama K, et al. Anesth Analg, 2003, 97(3), 759-762.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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